


Quiz 8 Review FORM-A

Mixed Review

Name: _____

Period: _____ Date: _____

1. Convert scientific notation into standard notation.

7.24 x 10⁻⁹  7.24

FINAL ANSWER

- ### 3. Simplify

$$\frac{3.235 \times 10^3}{9.5 \times 10^7}$$

SUBTRACT
EXPONENTS
WHEN
DIVIDING!

$$3.235 \div 9.5 =$$

$3-7=$

$.340 \times 10^{-4}$ \blacktriangle SIMPLIFY!

FINAL ANSWER

2. Convert scientific notation into standard notation.

notation $(+)=\rightarrow$
 2.76×10^6 2.76

FINAL ANSWER

4. List greatest to least: **COUNT FROM MARROW TO DECIMAL EVERYTIME!**

g) 21.800,000; 218000000

b) 3.65×10^6 ; 3.65

c) 3.7×10^3 ; 3.7

36,500,000

365

5. Simplify:

$$\frac{5st^4 \cdot 3st^{-2}}{3s^8t} = \frac{15s^2t^2}{3s^8t}$$

$$\frac{15s^2t^2}{3s^2t} =$$

6. Simplify $7\sqrt{3x} \cdot 3\sqrt{5xy}$

(7.3)

$$(\sqrt{3x} \cdot \sqrt{5xy})$$

7. Simplify: $\sqrt{4ab^2} \cdot \sqrt{ab^3}$

② ⑥

8. Simplify: $\sqrt{18mr^2} \cdot 2\sqrt{mr}$ — ALREADY SIMPLIFIED.

9. Simplify: $5\sqrt{4x} \cdot 2\sqrt{5x}$

② $\sqrt{4x} \cdot \sqrt{5x} =$ _____

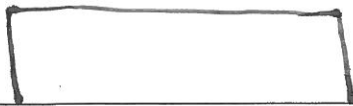
10. Simplify: $\sqrt{75xy} \cdot \sqrt{2x^3}$

11. Simplify: $\sqrt{2}(4 - 2\sqrt{20})$

12. Simplify : $(2 - \sqrt{5})^2$

13. Simplify: $\sqrt{3}(5 + 2\sqrt{3})$

$$5\sqrt{3} + 2\sqrt{9}$$



14. Simplify: $(3 + \sqrt{7})^2$

15. Simplify: $\frac{3}{\sqrt{2x^3}}$

SIMPLIFY THE NUMERATOR
AND DENOMINATOR
SEPARATELY.

$$\frac{\sqrt{3}}{\sqrt{2x^3}} = \frac{\sqrt{3}}{\sqrt{2} \sqrt{x^3}}$$



16. Simplify: $\sqrt{\frac{(-3)^2}{49x^2}}$ ← USE PARENTHESES!
 $(-3)(-3)$

$$\frac{\sqrt{9}}{\sqrt{49x^2}} = \frac{3}{7x}$$

17. Simplify: $\sqrt{\frac{3}{81}}$

$$\frac{\sqrt{3}}{\sqrt{81}} = \frac{\sqrt{3}}{9}$$

18. Simplify: $\sqrt{\frac{2x^2}{48}}$

$$\frac{\sqrt{2x^2}}{\sqrt{48}} = \frac{x\sqrt{2}}{4\sqrt{3}}$$

19. Simplify: COMBINE LIKE TERMS!

$$-3\sqrt{18} - 3\sqrt{27} - 2\sqrt{8}$$

20. Simplify: COMBINE LIKE TERMS!

$$2\sqrt{12} + 3\sqrt{27} - 2\sqrt{20}$$

21. Simplify: COMBINE LIKE TERMS!

$$-2\sqrt{36} + 2\sqrt{54} - 2\sqrt{24}$$

22. Simplify: COMBINE LIKE TERMS!

$$-2\sqrt{72} - 3\sqrt{18} + 2\sqrt{8}$$

★ REMEMBER! YOU CANNOT HAVE A RADICAL IN THE DENOMINATOR!